Module 2: Post-Quiz Code Document

Lesson 1

In preparation for reproducing the Indicator Table from the Global Findex database report, the data first needs to be saved as an object in your global environment.

```
micro_world <- read_csv("micro_world.csv")</pre>
```

Lesson 2

By this point of Week 2, you should now have created a data frame of the overall percentage of adults with an account by country, as well as a data frame of the percentage of adults with an account by both country and gender.

Lesson 3

Building on the previous assessment, you should now have the code for obtaining both the gender gap and income gap in account ownership.

Lesson 4

Finally, you should now have the code necessary to reproduce the Indicator Table by joining the data frames that you've created in the two previous assessments.

If you are interested in creating an auxliary table that shows only the statistically significant gaps, you will first need to calculate the margin of error for each country as defined in the footnote of Table A.1 from the Global Findex database report. The gaps that are not statistically significant (i.e., gaps falling within the margin of error) are replaced with a dash (–), and the case_when function is used to accomplish this task. Consider exploring the help page of the case_when function to familiarize yourself with its usage.

```
# margin of error
moe <-
  micro_world %>%
  group_by(economy, pop_adult) %>%
  summarize(design_effect = n() * sum(wgt^2) / (sum(wgt)^2),
            moe = 100 * sqrt(0.25 / n()) * 1.96 * sqrt(design_effect),
            .groups = "drop")
# auxiliary table
aux indicator table <-
  full_join(overall_account,
            account_gap_female,
            by = "economy") %>%
  full_join(account_gap_inc,
            by = "economy") %>%
  full_join(moe,
            by = "economy") %>%
  mutate(account = round(account),
         gap_female =
```

```
case_when(
    abs(gap_female) > moe ~ as.character(round(gap_female)),
    TRUE ~ "-"
),

gap_inc =
    case_when(
    abs(gap_inc) > moe ~ as.character(round(gap_inc)),
    TRUE ~ "-"
    )) %>%

select(economy, account, gap_female, gap_inc)
```